

10/533 129

Rec'd PCT/PTO 29 APR 2005

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
13 May 2004 (13.05.2004)

PCT

(10) International Publication Number  
WO 2004/039194 A1

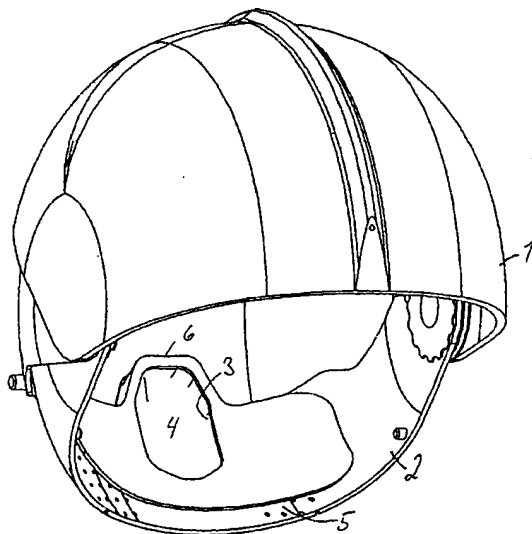
- (51) International Patent Classification<sup>7</sup>: A43B 3/24 // 3/28, A62B 18/08
- (21) International Application Number: PCT/NO2003/000358
- (22) International Filing Date: 28 October 2003 (28.10.2003)
- (25) Filing Language: Norwegian
- (26) Publication Language: English
- (30) Priority Data:  
20025231 31 October 2002 (31.10.2002) NO
- (71) Applicant (for all designated States except US):  
FORSVARETS FORSKNINGSINSTITUTT [NO/NO];  
P.O. Box 25, N-2027 Kjeller (NO).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): HALSNES, Odd  
[NO/NO]; Måstad, N-1866 Båstad (NO).
- (74) Agents: ONSAGERS AS et al.; P.O. Box 6963 St. Olavs  
plass, N-0130 Oslo (NO).
- (81) Designated States (*national*): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, EG, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Declaration under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES,

[Continued on next page]

(54) Title: EXHALATION SYSTEM



(57) Abstract: An exhalation system is provided for a helmet or face mask, which helmet or face mask covers the whole or parts of the area of the face's exhalation organs, the nose and mouth, with a chin guard. The system is characterised in that the chin guard is provided with an internal closed cavity which has an opening towards the interior of the helmet or the face mask on the inside of the chin guard and an additional opening towards the outside of the chin guard. The opening towards the interior of the helmet is relatively large and is in the form of one large opening or a small number of large openings which offer the least possible resistance and maintain the velocity of the exhalation air in the best possible manner.

WO 2004/039194 A1